

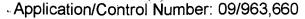
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/963,660	09/27/2001 90 07/31/2003	Michael Steinberger	32301W214	11
SMITH, GAMBRELL & RUSSELL, LLP ATTORNEYS AT LAW SUITE 800			EXAMINER	
			SOOHOO, TO	ONY GLEN
1850 M STREET, N.W. WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1723	
			DATE MAILED: 07/31/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)		
	•	09/963,660	STEINBERGER ET AL. M		
•	Office Action Summary	Examiner	Art Unit		
		Tony G Soohoo	1723		
Period fo	- The MAILING DATE of this communication r Reply	appears on the cover she t wit	h the correspondence address		
THE I - Exter after - If the - If NO - Failu - Any r	DRTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per the toreply within the set or extended period for reply will, by stayely received by the Office later than three months after the mid patent term adjustment. See 37 CFR 1.704(b).	N. 2 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	oply be timely filed (30) days will be considered timely. FHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
1)⊠	Responsive to communication(s) filed on 2	27 May 2003 .			
2a) <u></u> □	This action is FINAL . 2b)⊠	This action is non-final.			
3)☐ Dispositi	Since this application is in condition for all closed in accordance with the practice uncon of Claims				
·	Claim(s) 1-27 is/are pending in the applica	tion.			
	4a) Of the above claim(s) is/are with		·		
	Claim(s) <u>1-20 and 27</u> is/are allowed.				
6)⊠	Claim(s) <u>21-26</u> is/are rejected.				
7) 🗌	Claim(s) is/are objected to.				
	Claim(s) are subject to restriction an on Papers	d/or election requirement.			
9) 🗌 .	The specification is objected to by the Exam	iner.			
10) 🔲 -	The drawing(s) filed on is/are: a)□ ad	ccepted or b) objected to by the	ne Examiner.		
	Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).		
11) 🔲 -	The proposed drawing correction filed on	is: a)□ approved b)□ di	sapproved by the Examiner.		
	If approved, corrected drawings are required in	reply to this Office action.			
12) 🗌 🗀	The oath or declaration is objected to by the	Examiner.			
Priority u	nder 35 U.S.C. §§ 119 and 120				
13)⊠	Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. §	119(a)-(d) or (f).		
a)[☑ All b) ☐ Some * c) ☐ None of:				
	1. ☐ Certified copies of the priority docum	ents have been received.	•		
	2. Certified copies of the priority documents have been received in Application No				
· * S	3. Copies of the certified copies of the papplication from the International ee the attached detailed Office action for a	Bureau (PCT Rule 17.2(a)).			
14) 🗌 A	cknowledgment is made of a claim for dome	estic priority under 35 U.S.C.	§ 119(e) (to a provisional application).		
	☐ The translation of the foreign language cknowledgment is made of a claim for dom	•			
Attachment	(s)				
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(5) Notice of Ir	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)		
I.S. Patent and Tr PTO-326 (Re		Action Summary	Part of Paper No. 11		



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DETAILED ACTION

Election/Restrictions

1. Upon reconsideration, the restriction requirement made in Paper No. 7 is hereby withdrawn and an examination of all claims is made below.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 21-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 21 points out "a receiving container" in line 4, and also in line 9, "a receiving container". The claim appears to use the same name for different elements, or fails to positively identify that the "a receiving container" as referred to in the second instance is the same as that of the "receiving container" as referred to in the first instance.

The claim appears to claim two different distinct elements of "a plurality devices for metering the individual components" in lines 3-4 and that of the element in lines 5-7, "each control system having a flow-measuring device and in a regulating element for regulating the rate of flow and a regulator unit enabling a quantitatively proportional metering of the components".

The claim fails to clearly point out a distinction of the two element since both elements provide "metering".

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Furthermore, the claim can not be read to mean that the "plurality devices for metering the individual components" is meant as a pump 4,5,6, and the device which causes "enabling a quantitatively proportional metering of the components" as being the positive claimed flow meter 8,9,10, and regulation valves 34,35,36, since the claim further positively points out in claim 21, line 10-12, a pump and a device for further maintaining constant feed pressure between the containers upstream from the control system.

Thus, it appears that each container has two devices for "metering" which is unsupported in the specification.

For examination purposes, the phrase "a plurality devices for metering the individual components" in lines 3-4 and that of the element in lines 5-7, is being read as encompassing both subsystems of the pump and control system, while the phrase "each control system having a flow-measuring device and in a regulating element for regulating the rate of flow and a regulator unit enabling a quantitatively proportional metering of the components" is being read as a clarification of the subsystem of the control system part.

Nonetheless clarification is needed.

Claim 22 claims the option of a metering pump. However the claim 21 previously pointed out a the pump. Thereby claiming the same element twice. The claim should clearly point out that the previously state flow measure device is a mass flow meter, and that the broadly recited pump of claim 21 is a metering pump.

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Claim 23 appears to claim the same element of the pump (of lines 10-12 of claim 21) between the storage and the control thereby claiming the same element twice.

Claim 24 is unclear in scope in "devices for process management engineering", since 35 USC 112, 6th paragraph has not been invoked, the positive scope of the coordination, measurements and regulators are unclear and vague in the claim.

Furthermore it appears that the control devices as claimed in claim 21 has already claimed such a device which measures and regulates, thus the claim appears to claim the same element twice.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 21-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caedo et al 4964,732 in view of Brazelton 4642222.

The CAEDO (et al) reference discloses a mixing system having plural storage containers 1,4 (seen figure 3); plural devices for metering the individual components as seen along each lines 21 from the outlet of the containers 1,4; and inherently a receiving container at the end of the line 17 to hold the mixture flowing from the line 17 (since if there were inherently no container at the end of the line 17, the mixture would

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be dispensed to the floor and wasted); a line 21 from each storage container 1, 4 having a control system 9 10, 15; each control system having a flow measuring flow meter 10 and a controller valve 15 in response to the control device 10 for proportional metering; and plural lines down stream of the control system leading into line 17 to fed to a container (not shown) at the end of line 17 after all lines have been guided together at line 17; and there being plural pumps 5,5, to provide pressure between the containers 1,4 and associated control systems 9, 10, 15 arranged upstream from said respective control systems.

The CAEDO reference discloses all of the recited subject matter as defined within the scope of the claims with the exception of a feed pressure regulation device for maintaining constant feed pressure with the pump 5 (figure 1) being between the containers 1,4, and the associated control system 9, 10, 15.

The device to BRAZELTON (Figure 1) teaches that a feed system line may have a source 41, a downstream a pump 43, a further downstream pressure regulator 44 which feds to a further flow meter 45 for proportioning a fluid to the mixture point 54 whereby the pressure regulator provides and maintains appropriate pressure feed irrespective of variations in the inlet pressure.

In view of the teaching that a pressure regulator between the source and flow meter provides and maintains appropriate pressure feed irrespective of variations in the inlet pressure, it is deemed that it would have been obvious to one of ordinary skill in the art to provide for the feed line of CAEDO with a pressure regulator prior to the flow meter of CAEDO so that regulator provides and maintains appropriate pressure feed

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irrespective of variations in the inlet pressure for a more precise feed of liquid for measurement.

With regards to claim 22, note that CAEDO shows a pump 5 and a flow meter 10. It is known that meter pumps, and mass flow meters are known functional equivalent structures for performing pumping and measuring flow, thus it is deemed that it would have been obvious, , to one of ordinary skill in the art to substitute without undue experimentation, for the pump 5 or flow meter 10 with the known functional equivalent pump or flow meters such as a meter pump or mass-flow meter so as to provide a more easily constructed device.

With regards to claim 23, note that the combination as discussed above of CAEDO in view of BRAZELTON would result in plural pump and devices for constant pressure between the tanks and control system.

With regards to claim 24, note that the plural devices of the controls 9,9, pumps 5,5, flow meters 10,10 and regulation valves 15, 15 provides way to produce a process management for coordination of the flows with one another.

With regards to claim 25-26, note that CAEDO shows a static mixer 13.

Allowable Subject Matter

6. Claims 1-20, 27 are allowed.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following disclose flow control devices and methods of controlling proportional flow: Tilgner et al 4399105, Jones 5823669, Waters 3266780,

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Koenig et al 3425668, Hiroi 4621927, Jones et al 5423607, Nakamura et al 5482368, Edwards 5676461, Kobayashi 4614438, Cox et al 4433701, Volk, Jr et al 5332311, Patel et al 5340210, Hauser 3773300, Florentini 4096585, Fahy et al 4427298, Chapman 5674382, Woodle 3608869.

The following disclose methods of producing peroxycaroxylic acid: Hardy et al 4267124, Hutchins et al 4244884, and Hofen et al 4088676.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony G Soohoo whose telephone number is (703) 308-2882. The examiner can normally be reached on 7:00 AM - 5:00 PM, Tues. - Fri.. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Tony G Søohoø
Primary Examiner
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